



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/087,433      Confirmation No.: 3428  
Applicant(s): Hung Viet Ngo  
Filed: 3/1/2002  
Art Unit: 2874  
Examiner: Kang, Juliana K.  
Title: Angled Optical Connector Adapter Mounting Assembly  
Attorney Docket No.: 003A.0043.U1(US)  
Customer No.: 29,683

Commissioner For Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Declaration Under 37 C.F.R. §1.131

Sir:

I, the inventor of the invention described and claimed in the above-identified patent application, declare as follows:

1. I conceived the invention at least as early as 2001. This was before the filing date of February 7, 2002 for U.S. Patent No. 6,688,780 B2. Attached as Exhibits are copies of an Invention Disclosure Form dated April 11, 2001 (Exhibit A), supplemental figures created at least as early as July 30, 2001 (Exhibit B), and a second Invention Disclosure Form dated July 23, 2001 (Exhibit C) which describes the invention and shows the invention in the drawings.
2. The description and drawings in the Invention Disclosure Form are believed to be sufficient to establish a reduction to practice at least as early as 2001.

3. If the description and drawings in the Invention Disclosure Form are not considered a reduction to practice, then it is believed that a constructive reduction to practice occurred on March 1, 2002 when the above-identified patent application was filed with the U.S. Patent and Trademark Office. This was 22 days after the filing date of February 7, 2002 for U.S. Patent No. 6,688,780 B2. It is believed that applicant was diligent in reducing the invention to practice during this period. During the 22 day period, the application was being reviewed, executed by the inventor and forwarded to applicant's attorney for filing. Evidence of this diligence is shown in the copies of correspondence emails and letter in Exhibit D.

Based upon information and belief, it is believed that the invention of the present patent application occurred prior to the effective date of U.S. Patent No. 6,688,780. Therefore, it is believed that U.S. Patent No. 6,688,780 is not prior art.

I/We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

All Inventors:

Date: March-08-2005

By: Hung Viet Ngo

Name: Hung Viet Ngo

**INFORMATION DISCLOSURE  
CITATION FORM FOR  
PATENT APPLICATION  
(FORM PTO-1449)  
(Substitute)**

Docket No.: 003A.0043.U1(US)

Serial No.: 10/087,433

Applicant(s): Hung Viet Ngo

Filing Date: March 1, 2002

Group: 2874

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number (Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant	Class	Sub-class
	US-6,863,446 B2	03-08-2005	Ngo	385	72
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				
	US-				

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number (Country Code-Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name Of Patentee of Applicant	Translation? Yes/No/n/a
	- -			
	- -			
	- -			
	- -			
	- -			
	- -			

**OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)**


Examiner's Signature:

Date Considered:

Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered.  
Include a copy of this citation form with your next correspondence to the Applicant(s).

## **Exhibit A**



Confidential

APR 2001

Patent Department only

FCI Case No C3043

BY: \_\_\_\_\_  
Invention Disclosure Form

To : Patent Department

Date : 04-27-2001

From : HUNG NGO

Location Valley Green

This invention relates to : **45 Degree Metal Shielded Adapter frame for MPO/MTP Connector**

(Brief Descriptive Title)

The inventor(s) is (are) : **HUNG NGO** \_\_\_\_\_  
(Print Full name(s))

address (es) inventor(s) and Nationality: (please provide on separate form)

Product to which this invention relates :

**Fiber Optics Panel or Face plate product application & MTP, MPO connector** \_\_\_\_\_

A brief full description of the parts and the function of the parts (Refer to Attached Drawing or Sketch and Number the parts. Continue on additional pages if necessary.) :

**The 45 deg. Adapter frame is mounted to a front panel or face plate from "behind". The MPO/MTP adapter will be inserted into the frame. Rectangular gasket provides EMI Shielding. MPO/MTP with Twisted boot insets into adapter for mating.** \_\_\_\_\_

The nearest thing to this invention that I know of  
**45 deg. Adapter frame for SC & LC connector Ref. C3029 & C2885** \_\_\_\_\_ (Item)  
\_\_\_\_\_ Manufactured by \_\_\_\_\_

(Attach Descriptive Literature if Available)

I (we) first thought of this invention on **2001-04-11** \_\_\_\_\_ (Date)

The invention is first described in notebook **2001-04-11** \_\_\_\_\_ (Identify)

Project / Contract : \_\_\_\_\_ (Identify)

The first sketch or drawing is **No SK 45745.prt.2 (Pro-E)** \_\_\_\_\_ Dated **2001-04-11**

The invention was first built on \_\_\_\_\_ (Date) \_\_\_\_\_

The test results are reported in \_\_\_\_\_ Dated \_\_\_\_\_  
(Memo, Notebook or Lab Report)

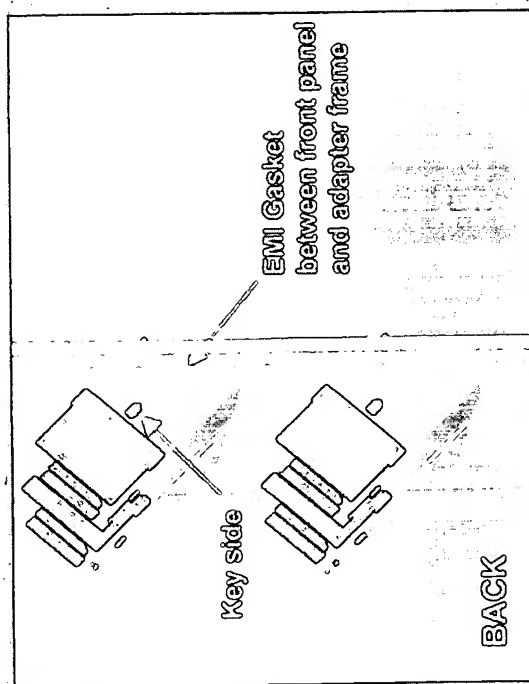
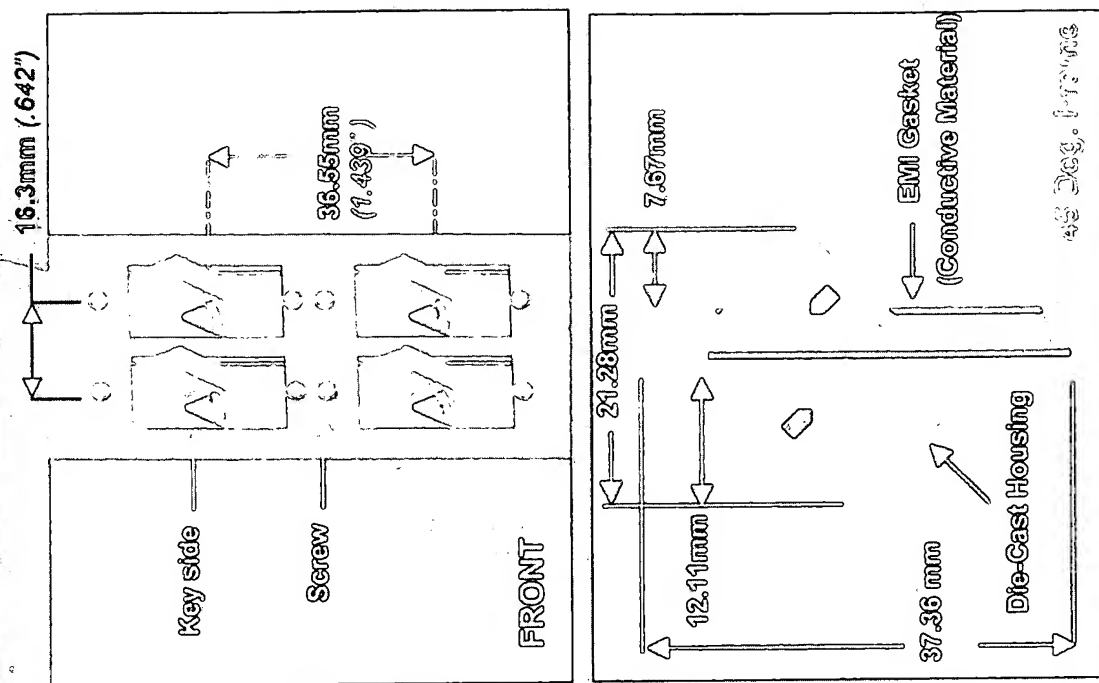
This invention was explained to FCI Employee on **2001-04-12** \_\_\_\_\_

Signature of Inventor(s) and date : **04/27/01** Read and Understood :  
Signature of Witness(s) and date

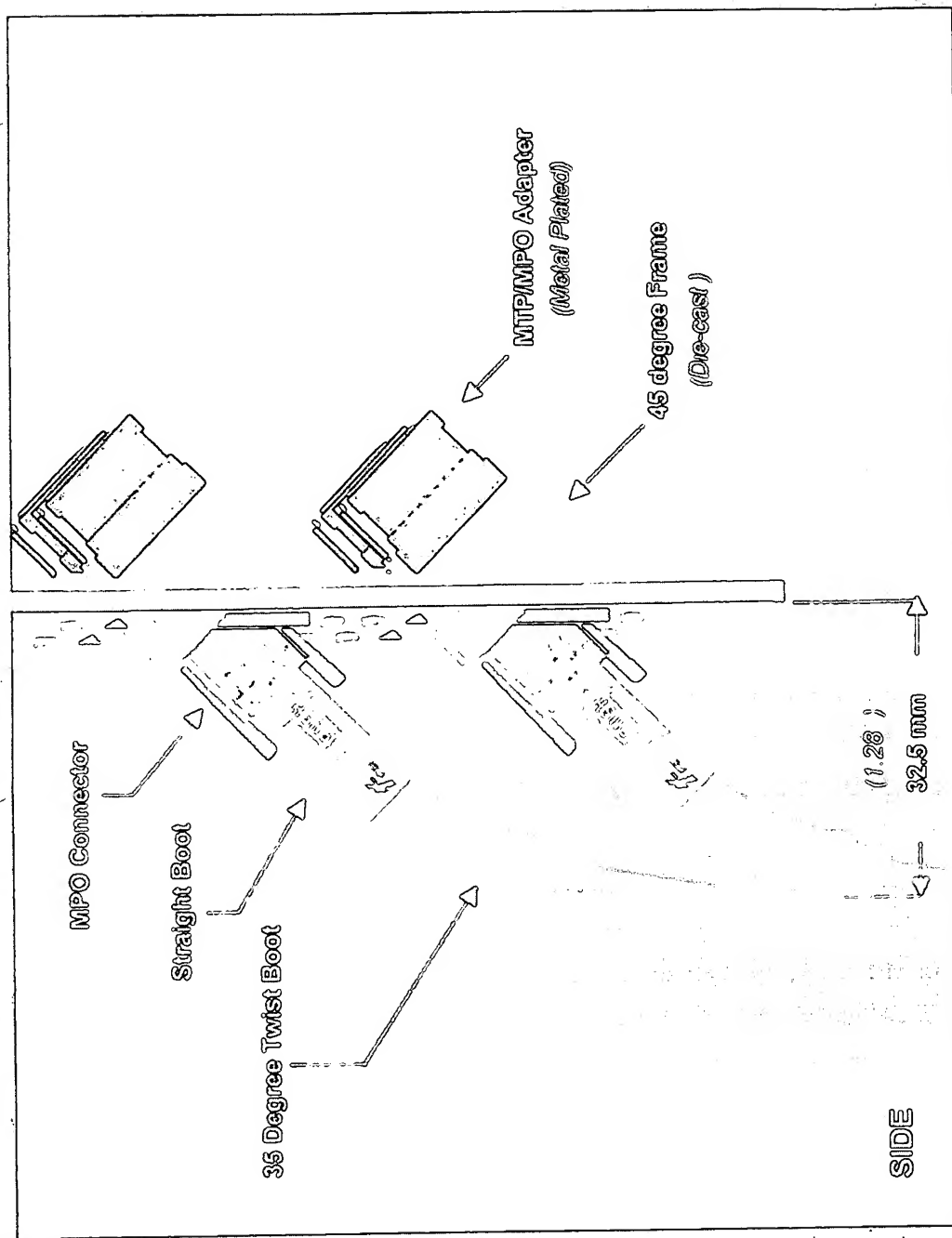
*Hung Viet My*

*Ryan Z...* 4/30/01

# MPO & 45 degree Shielded Adapter Frame

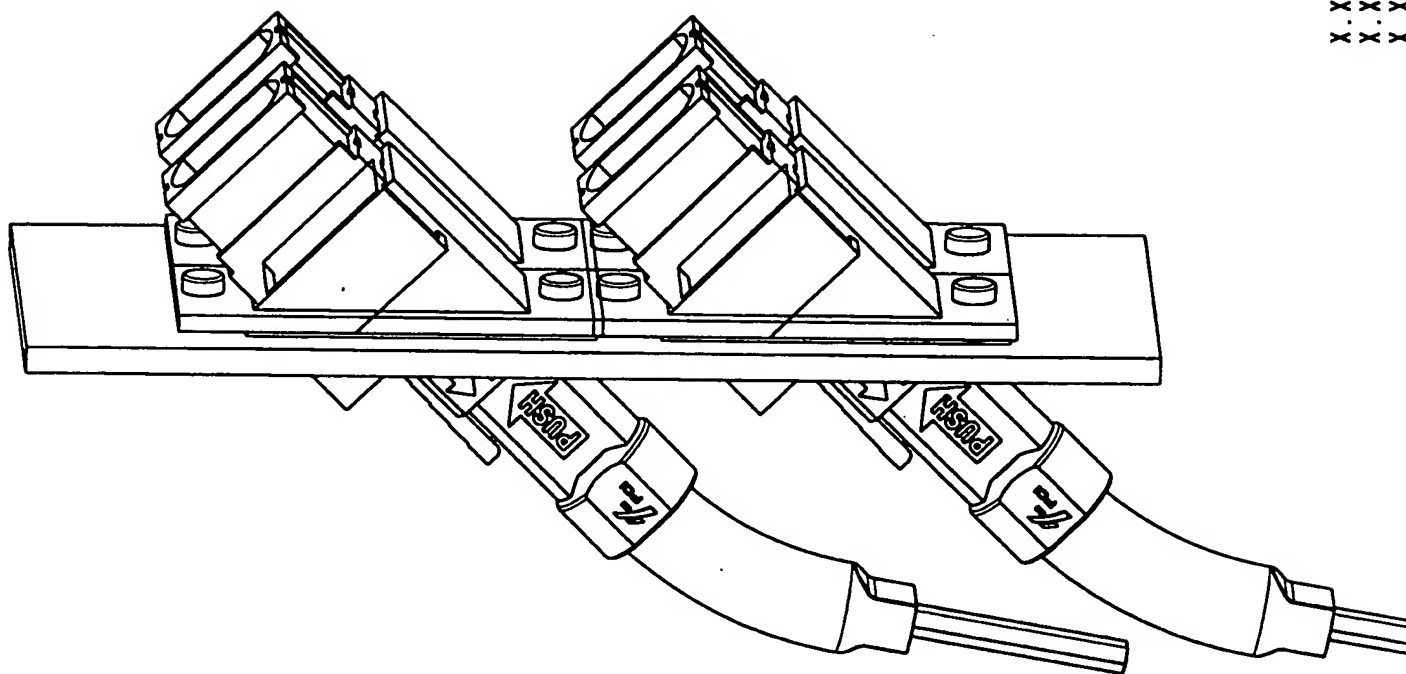


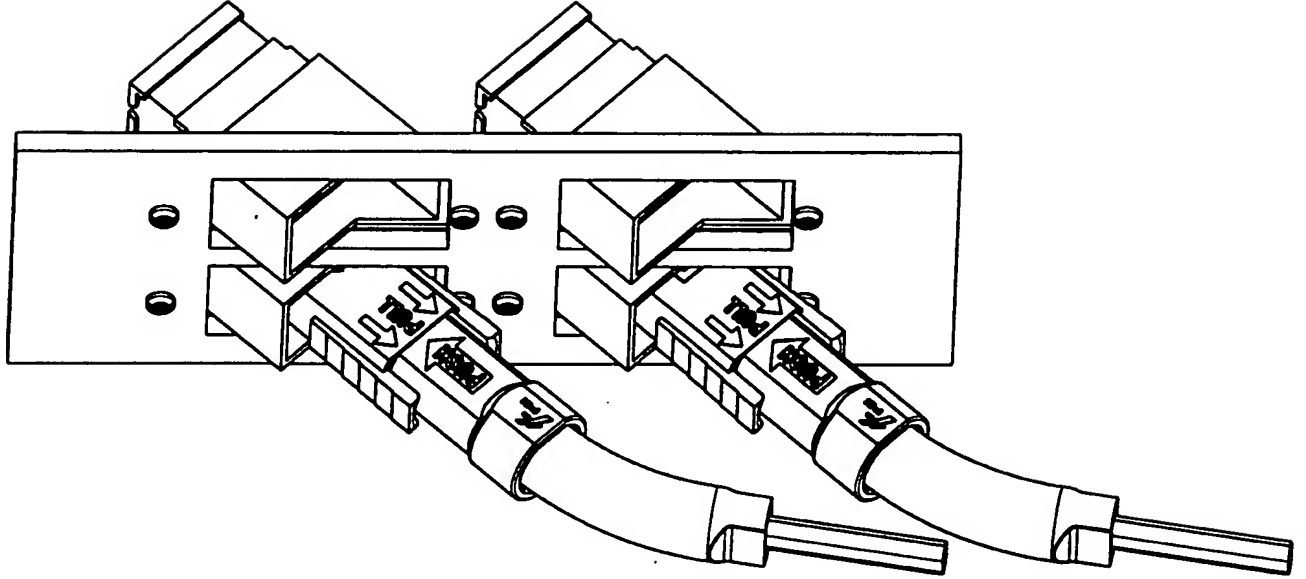
# MPO & 45 degree Shielded Adapter Frame



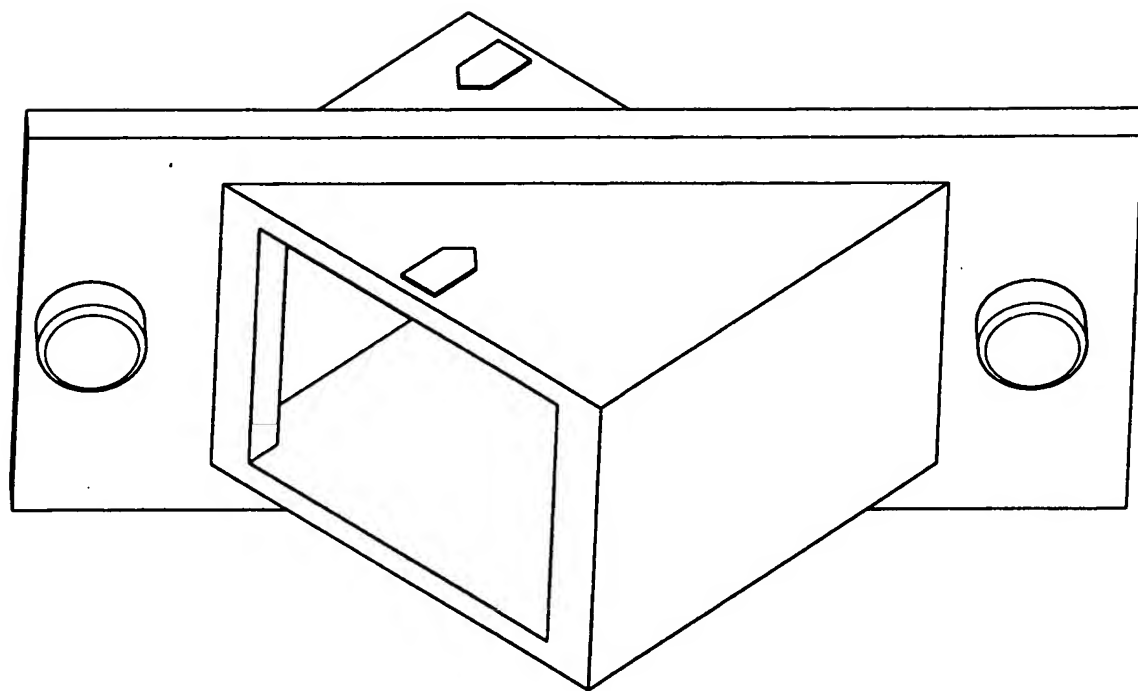


X.X    +-0.2  
X.XX   +-0.10  
X.XXX   +-0.050

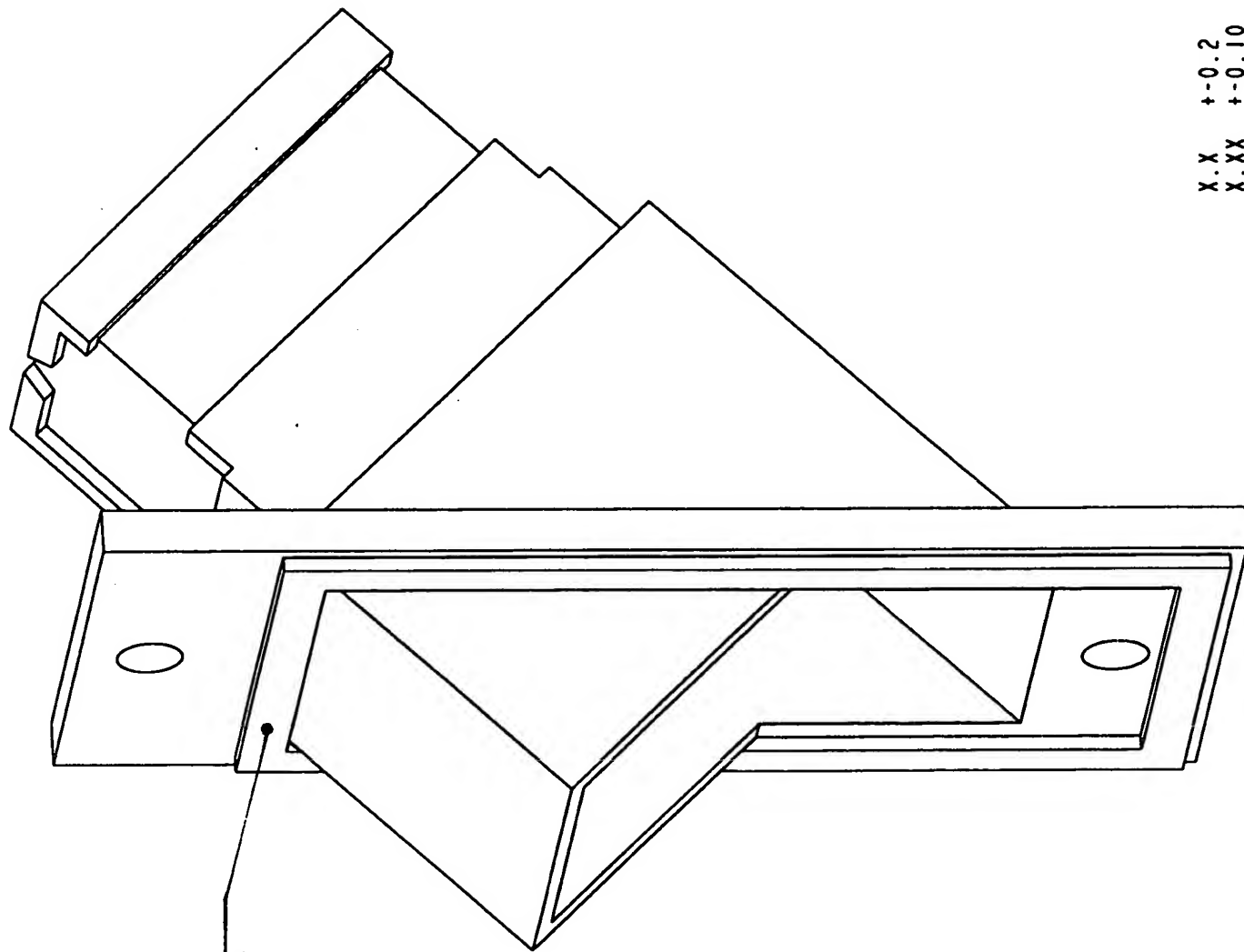




X.X +-0.2  
X.XX +-0.10  
X.XXX +-0.050



X.X    +-0.3  
X.XX   +-0.13  
X.XXX   +-0.051

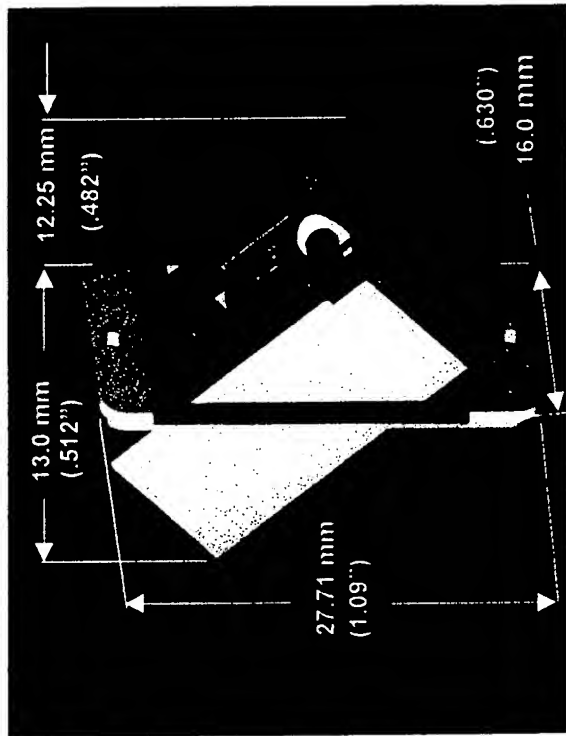
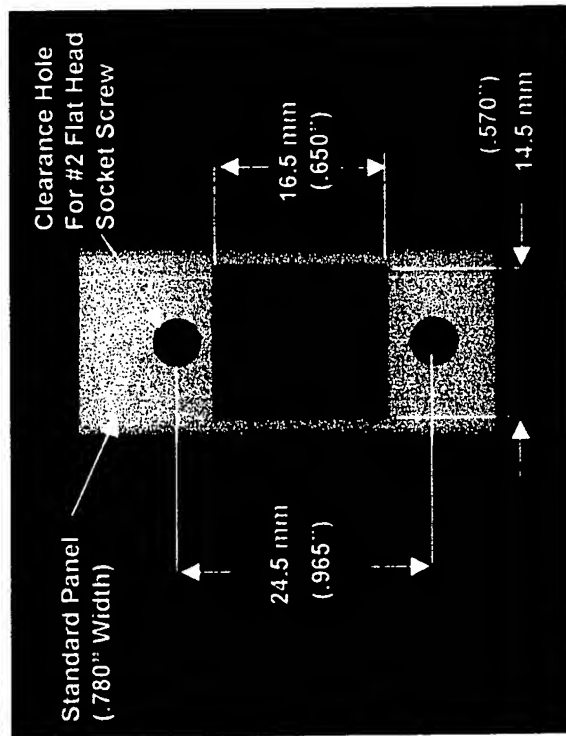


X.X    +-0.2  
X.XX   +-0.10  
X.XXX   +-0.050

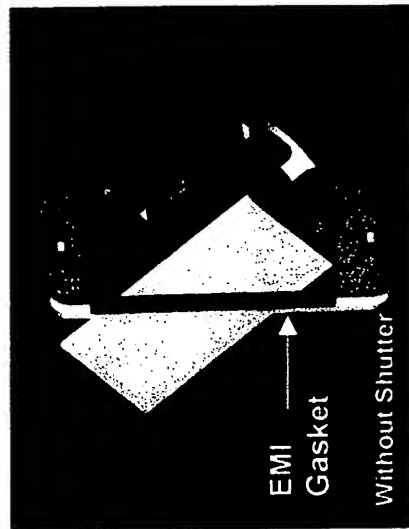
## **Exhibit B**

# MPO/MTP & 45 degree Shielded Adapter Frame

## (With and Without a Shutter)

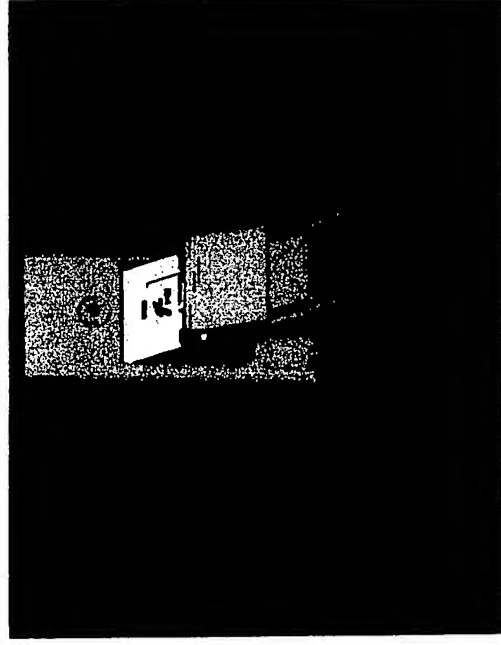
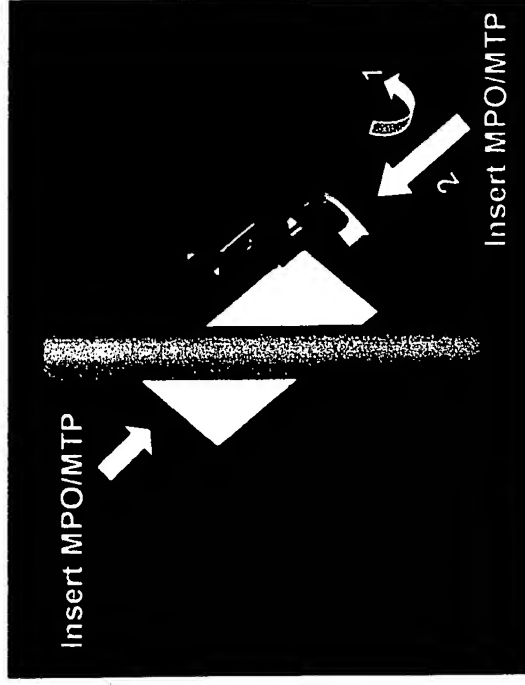
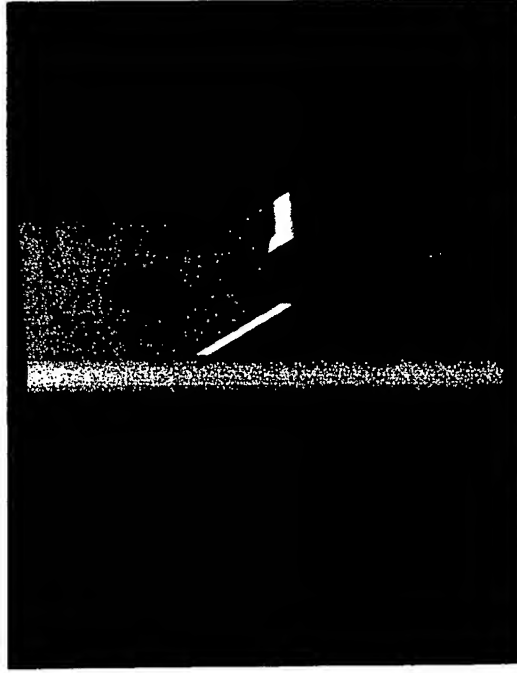


ADAPTER FRAME



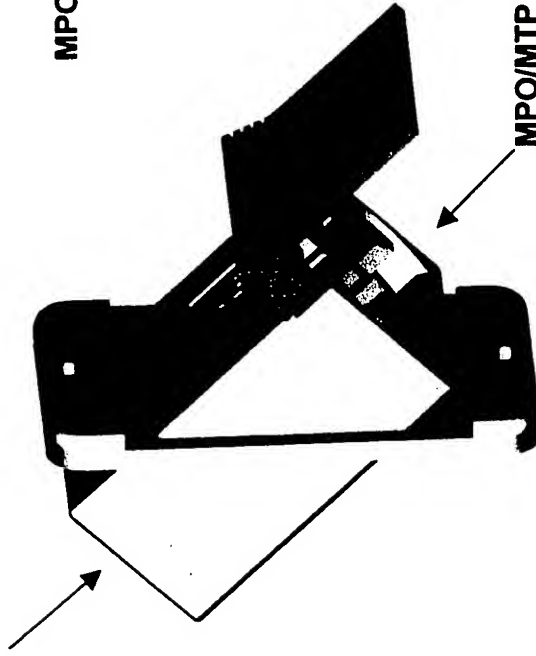
# MPO/MTP & 45 degree Shielded Adapter Frame

(With and Without a Shutter)



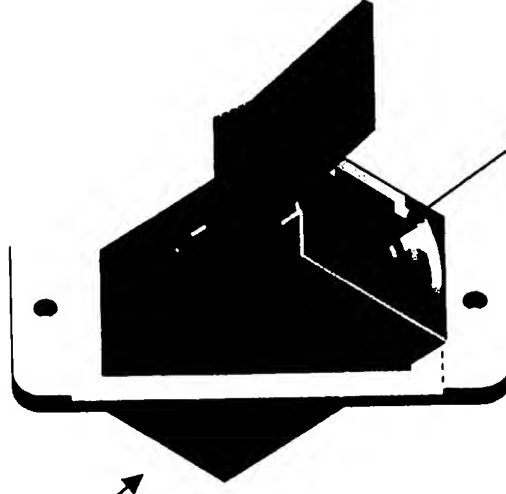
# MPO-MTP 45 Deg. Angle Adapter

MPO/MTP Insert Latch



MPO/MTP Insert Latch

Horizontal 45 Deg. Adapter



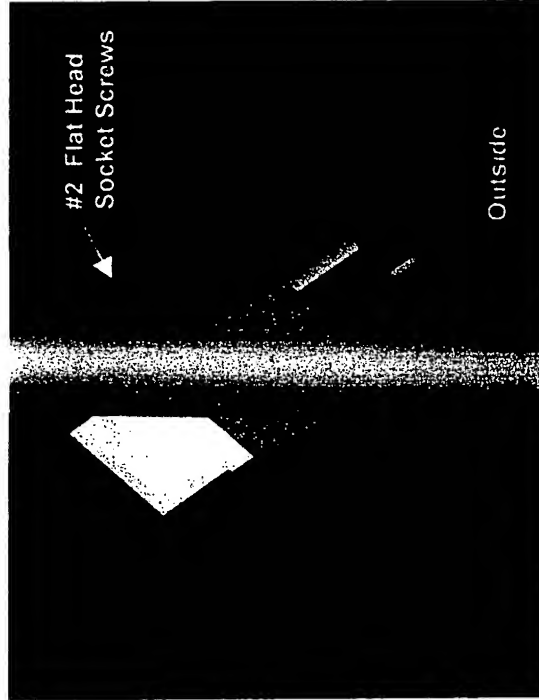
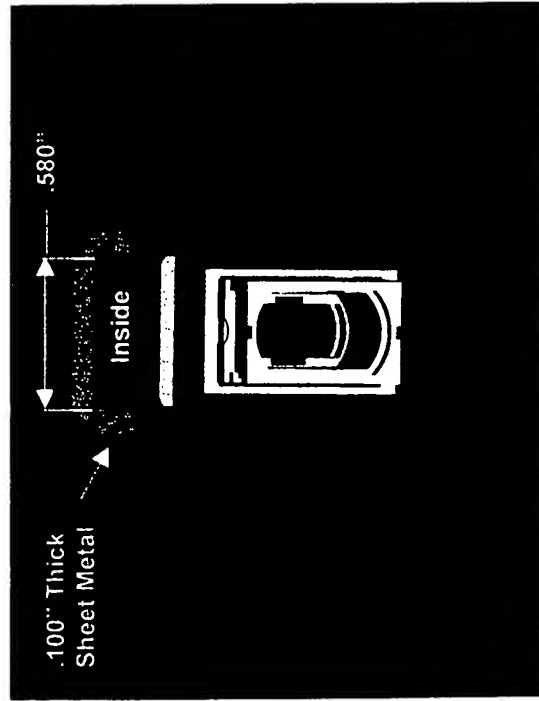
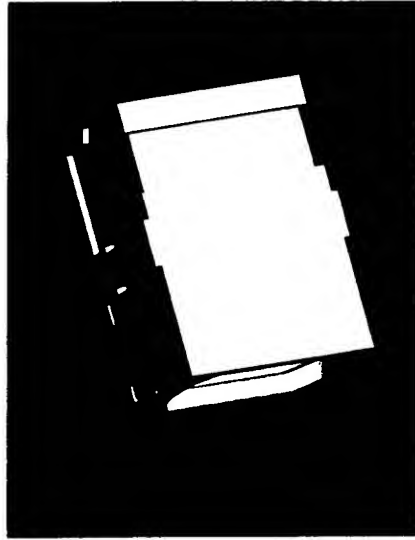
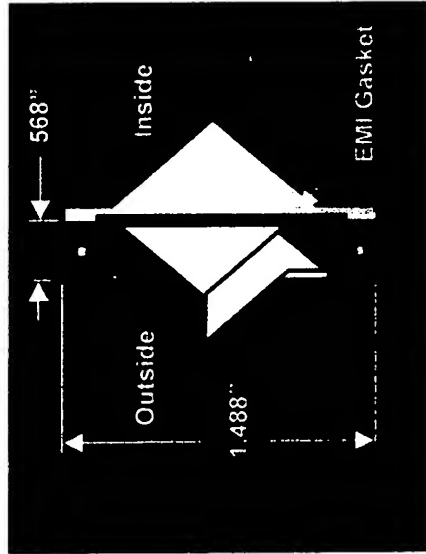
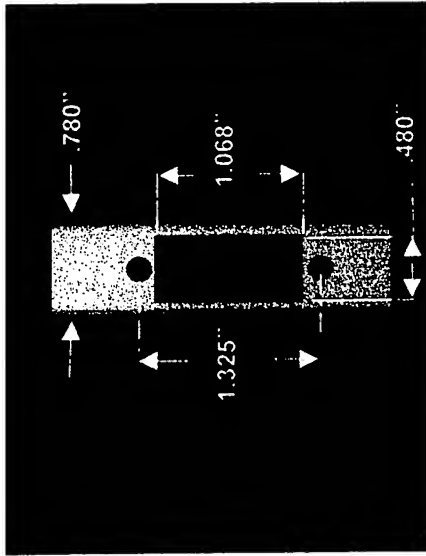
MPO/MTP Insert Latch

Vertical 45 Deg. Adapter



Ref C3043  
UPDATED

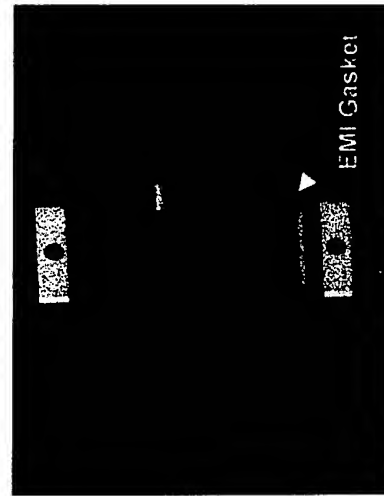
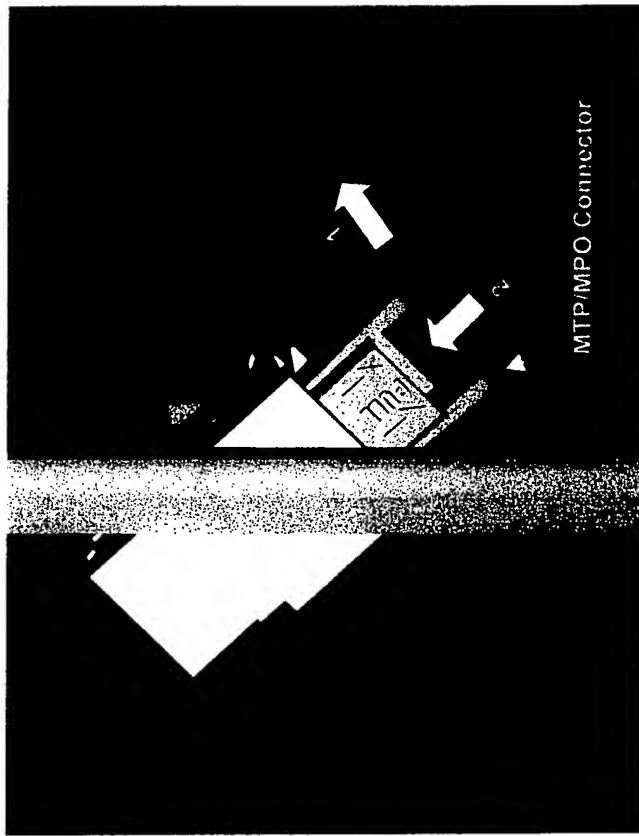
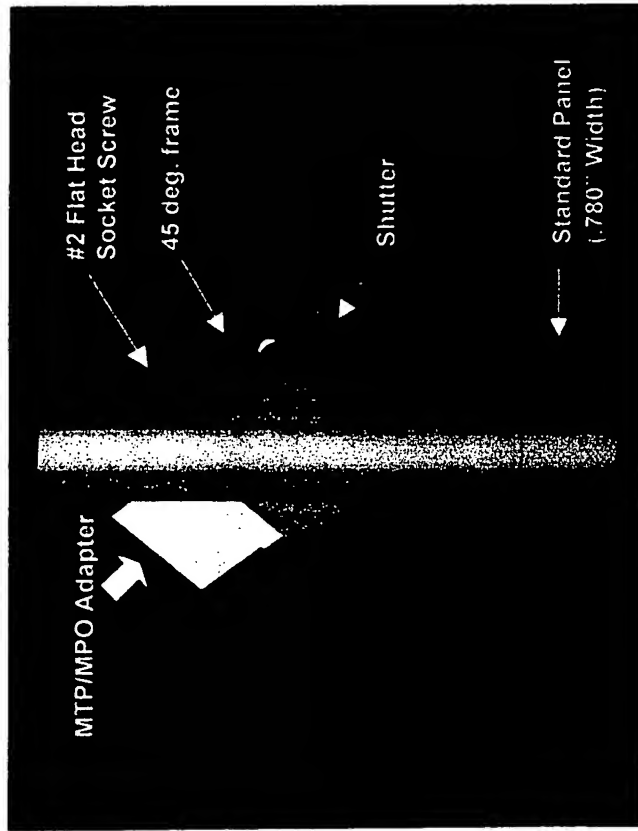
# MP( i degree Shielded Adapter Frame (Without a Shutter)



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# MPO/MTP & 45 degree Shielded Adapter Frame

(With a Shutter)



## Exhibit C



RECEIVED  
JUL 25 2001  
BY: \_\_\_\_\_ Confidential

Patent Department only
FCI Case No. <b>C3109</b>

**Invention Disclosure Form**

**To : Patent Department**

**Date : 07-23-01**

**From : HUNG NGO**

**Location Valley Green**

This invention relates to : **Assembly Latch method** \_\_\_\_\_  
(Brief Descriptive Title)

The inventor(s) is (are) : **HUNG NGO** \_\_\_\_\_  
(Print Full name(s))

address (es) inventor(s) and Nationality: (please provide on separate form)

Product to which this invention relates :

**MPO/MTP Adapter** \_\_\_\_\_

A brief full description of the parts and the function of the parts (Refer to Attached Drawing or Sketch and Number the parts. Continue on additional pages if necessary.) :

**The Existing product used the press-fit method to insert the Insert Latch component to the half adapter frame, and then they used ultrasonic bonding method to bond two half Adapter frame together. The new design will reduce the manufacturing cost with fewer components (1 adapter frame) and no bonding process requirement. The new design will reduce the amount of miss-alignment in the other words that it will increase the accuracy**

The nearest thing to this invention that I know of

**MPO/MTP adapter from US Connect** \_\_\_\_\_ (Item)

Manufactured by

(Attach Descriptive Literature if Available)

I (we) first thought of this invention on **2001-05-02** \_\_\_\_\_ (Date)

The invention is first described in notebook \_\_\_\_\_ (Identify)

Project / Contract : \_\_\_\_\_ (Identify)

The first sketch or drawing is No. **Metalframe.prt** Dated **2001-05-02** \_\_\_\_\_

The invention was first built on **2001-06-04** \_\_\_\_ (Date) \_\_\_\_\_

The test results are reported in \_\_\_\_\_ Dated  
(Memo, Notebook or Lab Report)

This invention was explained to FCI Employee on **2001-05-25**.

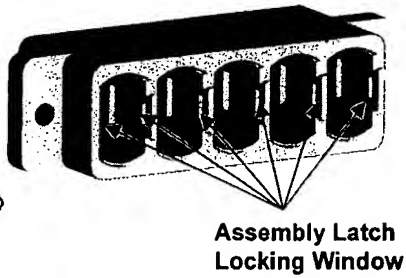
Signature of Inventor(s) and date :

*Hungviet Ngo July 23, 2001*

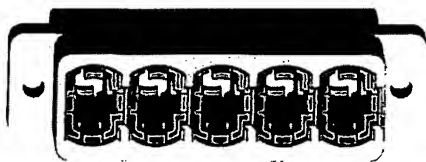
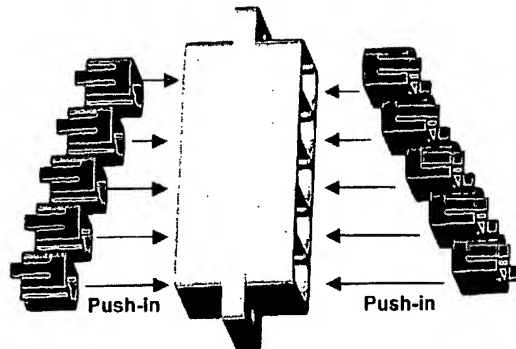
Read and Understood :

Signature of Witness(s) and date

Simplex or Multiple Position Adapter Frame

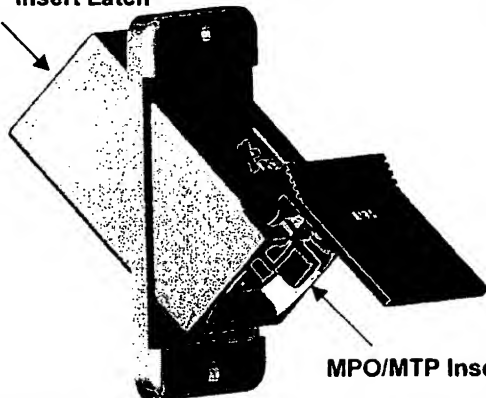


MPO/MTP Insert Latch



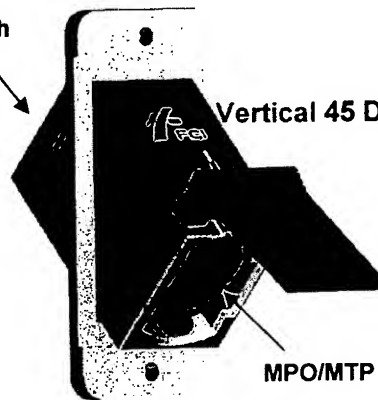
Simplex or Multiple Position Adapter System

MPO/MTP Insert Latch



Horizontal 45 Deg. Adapter

MPO/MTP Insert Latch



Vertical 45 Deg. Adapter

## MPO-MTP Adapter System

Hu

## **Exhibit D**

**From:** "Reiss, Steven" <SReiss@fciconnect.com>  
**To:** "Janik Marcovici (E-mail)" <jmarcovici@mail.pgpatent.com>  
**Date:** 2/19/02 3:45PM  
**Subject:** C3403

Please send me another copy of the most recent draft.

Thanks!

Steven M. Reiss  
Patent Attorney  
FCI USA, Inc.  
Intellectual Property Department  
825 Old Trail Road  
Etters, PA 17319-9351

Voice: 717-938-7514  
Fax: 717-938-7211  
E-mail: sreiss@fciconnect.com

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**From:** Janik Marcovici  
**To:** Reiss, Steven  
**Date:** 2/19/02 4:09PM  
**Subject:** Re: FW: C3043/010481

Dear Steve:

Attached is an electronic copy (in Word) of the draft application and drawings (6) for the above noted case.

Best Regards,  
Janik



LAW OFFICES

**PERMAN & GREEN, LLP**  
PATENT, TRADEMARK AND COPYRIGHT PRACTICE  
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FAIRFIELD, CONNECTICUT 06430-6232

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MARTEY R. PERMAN (1939-1993)

TELEPHONE: 203.259.1800

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E-MAIL: [pgpatent@aol.com](mailto:pgpatent@aol.com)

[www.pgpatent.com](http://www.pgpatent.com)

February 25, 2002

OF COUNSEL

DONALD C. CAULFIELD  
PAUL WEINSTEIN

\* MA BAR  
\* NY BAR  
\* TX & ID BAR

M. Steven Reiss, Esq.  
FCI USA, Inc.  
825 Old Trail Road  
Etters, PA 17319

Re: U.S. Patent Application for:  
"ANGLED OPTICAL CONNECTOR ADAPTER MOUNTING  
ASSEMBLY"  
Your Reference: C3043 US  
Our Reference: 680-010481-US (PAR)

Dear Steve:

Enclosed, please find the finalized application for the above-referenced patent docket, together with a Combined Declaration and Power of Attorney and Assignment for execution.

An extra copy of the application is enclosed for your file. If you have any questions, please feel free to call.

Sincerely, -

PERMAN & GREEN, LLP



Janik Marcovici  
JM/eh  
Enclosures

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